

CLAIM LISTING

1. (Currently Amended) A medical device comprising:
  - a stud configured to project percutaneously outward through a patient's skin layers;  
said stud defining an outer end and having a longitudinal peripheral surface extending inwardly from said outer end;  
said peripheral surface having a longitudinal porous layer thereon for promoting soft tissue ingrowth;
  - a shoulder surface oriented substantially perpendicular to said stud peripheral surface and located inwardly from said stud outer end and from said longitudinal porous layer; and wherein  
said shoulder surface has a lateral porous layer thereon oriented substantially perpendicular to said longitudinal porous layer for promoting soft tissue ingrowth.
2. (Original) The medical device of claim 1 wherein at least one of said porous layers is characterized by a pore size within the range of 50 to 200 microns with a porosity of between 60 to 95%.
3. (Original) The medical device of claim 1 wherein at least one of said porous layers comprises a mesh of fibers.
4. (Original) The medical device of claim 1 wherein at least one of said porous layers comprises a mass of sintered material.
5. (Original) The medical device of claim 3 wherein said fibers are of metal material from within a group comprised of titanium, nitinol, silver, and stainless steel.
6. (Original) The medical device of claim 3 wherein said fibers are of polymeric material.

1 7. (Original) The medical device of claim 4 wherein said mass is formed of metal  
2 material from within a group comprised of titanium, nitinol, silver, and stainless steel.

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4 8. (Original) The medical device of claim 4 wherein said mass is formed of  
5 polymeric material.

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7 9. (Original) The medical device of claim 1 wherein said stud carries means for  
8 promoting healing.

9 10. (Withdrawn) The medical device of claim 1 wherein said stud carries a sound  
10 generator and is configured to percutaneously project into a patient's ear canal.

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12 11. (Withdrawn) The medical device of claim 1 wherein said stud comprises a  
13 portion of an implanted catheter providing access to an interior body site.

14 12. (Withdrawn) The medical device of claim 1 wherein said stud includes a sensor  
15 coupled to an interior body site.

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17 13. (Original) The medical device of claim 1 further including a transitional layer  
18 mounted on said stud between said stud outer end and said longitudinal layer.

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20 14. (Original) The medical device of claim 1 further including a cap configured for  
21 mounting on said stud outer end.

22 15. (Original) The medical device of claim 1 wherein said porous layers are formed  
23 of biocompatible material.

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1           16.    (Currently Amended) A method of configuring an implantable medical device  
2 with a portion adapted to project percutaneously comprising the steps of:  
3           providing a longitudinally projecting stud on said device having an outer end  
4 and a peripheral surface extending longitudinally inward from said outer end;  
5           providing a laterally projecting shoulder surface on said device located inwardly  
6 from and oriented substantially perpendicular to said stud peripheral surface; and  
7           forming a lateral porous layer on said ~~stud peripheral surface and said shoulder~~  
8 surface and a longitudinal porous layer on said peripheral surface for conducive to promoting  
9 tissue ingrowth and for establishing an infection resistant barrier.

10           17.    (Original) The method of claim 16 wherein said step of forming a porous layer  
11 comprises forming the layer with a pore size within a range of 50 to 200 microns with a  
12 porosity of between 60 to 95%.

13           18.    (Original) The method of claim 16 wherein said step of forming a porous layer  
14 comprises forming at least a portion of said layer with a fiber mesh.

15           19.    (Original) The method of claim 16 wherein said step of forming a porous layer  
16 comprises forming at least a portion of said layer with a mass of sintered material.

17           20.    (Original) The method of claim 16 wherein said porous layer is formed at least  
18 in part of metal material from within a group comprised of titanium, nitinol, silver, and  
19 stainless steel.

20           21.    (Original) The method of claim 16 wherein said porous layer is formed at least  
21 in part of polymeric material.

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